

DEPARTMENT: Community Development

REPORTS TO: Higher level manager or Division Manager

SUPERVISES: None; may provide some lead direction or professional expertise to other technical staff, as required.

DEFINITION:

This is a journey level, professional engineering position responsible for reviewing architectural and structural calculations and plans related to the specifications of the Oregon State Specialty Codes.

ESSENTIAL JOB FUNCTIONS: (Any one position may not include all of the duties listed nor do the listed examples include all tasks, which may be found in positions of this class.)

Performs review of structural engineering plans and calculations for a wide range of commercial and residential projects in accordance with the state codes and accepted structural engineering standards and practices; approves plans; prepares correspondence; provides engineering assistance to other City staff, as needed.

Works with representatives of other City departments, other governmental agencies, private developers, consultants, neighborhood and other community groups to resolve engineering problems; responds to inquiries and citizen complaints and requests for information regarding engineering design, planning and construction activities under review.

Performs engineering studies, analyzes data, makes recommendations on findings; prepares correspondence and technical engineering reports and provides engineering assistance, as required.

Coordinates and administers special inspection programs in accordance with state code; reviews special inspection requirements for commercial and residential projects; works with Building division staff to resolve inspection items that are not in compliance with state codes and the project plans and specifications.

Performs site observation visits on commercial and residential projects at the request of building inspectors to observe potential construction conflicts and/or general construction progress towards complying with state codes and the project plans and specifications.

Provides educational training to commercial and residential plan reviewers and inspectors on applicable state code, structural engineering principles, details and construction practices.

OTHER JOB FUNCTIONS:

Performs other related duties as assigned.

WORKING CONDITIONS:

Duties are primarily performed in an office environment with occasional fieldwork where employees visit construction sites or are required to review deteriorating buildings and be exposed to varying weather conditions.

QUALIFICATIONS:Knowledge of:

- Structural engineering principles, practices, methods, and techniques related to a wide variety of commercial and residential construction.
- Applicable state and local laws, rules, regulations and standards related to construction projects; state specialty codes, uniform building codes standards and industry standards.
- Computer applications and uses for performing structural engineering calculations and project management activities.

Ability to:

- Understand and interpret applicable state building codes; governmental rules and regulations
- Differentiate between mandatory and negotiable code stipulations and act accordingly
- Analyze engineering problems, accepting or suggesting alternative approaches to the same problem
- Interpret structural and architectural plans and drawings; analyze them for components and details.
- Prepare clear and precise reports of a technical and administrative nature.
- Provide technical support and training to other technical staff
- Establish and maintain effective working relationships with other employees, representatives of other governmental agencies, contractors, developers and the public.
- Effectively represent the City's interests on development and compliance issues within adopted city codes and public works standards.
- Communicate complex issues effectively, both orally and in writing.
- Physical ability to perform the essential functions of the job.

Education and Experience: Any equivalent combination of education and experience, which provides the applicant with the knowledge, skills, and abilities, required to perform the job. A typical way to obtain the knowledge and abilities would be:

Bachelor's degree in structural engineering and four to five years of progressively responsible experience related to structural engineering design and construction.

Licenses, Certificates, and Other Requirements:

Valid driver's license.

Professional Engineers License (issued by Oregon Board of Engineering Examiners) in Structural Engineering.